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<110> Ian Popoff
Jacqueline Wyatt

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Met Ser Tyr Asn Tyr
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Val Val Thr Ala Gln Lys Pro Thr Ala Val Asn Gly Cys Val Thr Gly
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cac ttt act tcg gcc gaa gac tta aac ctg ttg att gcc aaa aac acg 211
His Phe Thr Ser Ala Glu Asp Leu Asn Leu Leu Ile Ala Lys Asn Thr
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aga tta gag atc tat gtg gtc acc gcc gag ggg ctt cgg ccc gtc aaa 259
Arg Leu Glu Ile Tyr Val Val Thr Ala Glu Gly Leu Arg Pro Val Lys
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gag gtg ggc atg tat ggg aag att gcg gtc atg gag ctt ttc agg ccc 307
Glu Val Gly Met Tyr Gly Lys Ile Ala Val Met Glu Leu Phe Arg Pro
55 60 65

aag ggg gag agc aag gac ctg ctg ttt atc ttg aca gcg aag tac aat 355
Lys Gly Glu Ser Lys Asp Leu Leu Phe Ile Leu Thr Ala Lys Tyr Asn
70 75 80 85

gcc tgc atc ctg gag tat aaa cag agt ggc gag agc att gac atc att 403
Ala Cys Ile Leu Glu Tyr Lys Gln Ser Gly Glu Ser Ile Asp Ile Ile
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Thr Arg Ala His Gly Asn Val Gln Asp Arg Ile Gly Arg Pro Ser Glu
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cgt ctc tat gat ggc ctt ttc aag gtt att cca cta gat cgc gat aat      547
Arg Leu Tyr Asp Gly Leu Phe Lys Val Ile Pro Leu Asp Arg Asp Asn
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aaa gaa ctc aag gcc ttc aac atc cgc ctg gag gag ctg cat gtc att      595
Lys Glu Leu Lys Ala Phe Asn Ile Arg Leu Glu Glu Leu His Val Ile
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gat gtc aag ttc cta tat ggt tgc caa gca cct act att tgc ttt gtc      643
Asp Val Lys Phe Leu Tyr Gly Cys Gln Ala Pro Thr Ile Cys Phe Val
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tac cag gac cct cag ggg cgg cac gta aaa acc tat gag gtg tct ctc      691
Tyr Gln Asp Pro Gln Gly Arg His Val Lys Thr Tyr Glu Val Ser Leu
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cga gaa aag gaa ttc aat aag ggc cct tgg aaa cag gaa aat gtc gaa      739
Arg Glu Lys Glu Phe Asn Lys Gly Pro Trp Lys Gln Glu Asn Val Glu
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gct gaa gct tcc atg gtg atc gca gtc cca gag ccc ttt ggg ggg gcc      787
Ala Glu Ala Ser Met Val Ile Ala Val Pro Glu Pro Phe Gly Gly Ala
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atc atc att gga cag gag tca atc acc tat cac aat ggt gac aaa tac      835
Ile Ile Ile Gly Gln Glu Ser Ile Thr Tyr His Asn Gly Asp Lys Tyr
230                 235                 240                 245

ctg gct att gcc cct cct atc atc aag caa agc acg att gtg tgc cac      883
Leu Ala Ile Ala Pro Pro Ile Ile Lys Gln Ser Thr Ile Val Cys His
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aat cga gtg gac cct aat ggc tca aga tac ctg ctg gga gac atg gaa      931
Asn Arg Val Asp Pro Asn Gly Ser Arg Tyr Leu Leu Gly Asp Met Glu
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ggc cgg ctc ttc atg ctg ctt ttg gag aag gag gaa cag atg gat ggc      979
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Ile Ala Glu Cys Leu Thr Tyr Leu Asp Asn Gly Val Val Phe Val Gly
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Ser Arg Leu Gly Asp Ser Gln Leu Val Lys Leu Asn Val Asp Ser Asn
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gaa caa ggc tcc tat gta gtg gcc atg gaa acc ttt acc aac tta gga    1171
Glu Gln Gly Ser Tyr Val Val Ala Met Glu Thr Phe Thr Asn Leu Gly
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ccc att gtc gat atg tgc gtg gtg gac ctg gag agg cag ggg cag ggg    1219
Pro Ile Val Asp Met Cys Val Val Asp Leu Glu Arg Gln Gly Gln Gly
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cag ctg gtc act tgc tct ggg gct ttc aag gaa ggt tct ttg cgg atc    1267
Gln Leu Val Thr Cys Ser Gly Ala Phe Lys Glu Gly Ser Leu Arg Ile
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atc cgg aat gga att gga atc cac gag cat gcc agc att gac tta cca    1315
Ile Arg Asn Gly Ile Gly Ile His Glu His Ala Ser Ile Asp Leu Pro
390                 395                 400                 405

ggc atc aaa gga tta tgg cca ctg cgg tct gac cct aat cgt gag act    1363
Gly Ile Lys Gly Leu Trp Pro Leu Arg Ser Asp Pro Asn Arg Glu Thr
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gat gac act ttg gtg ctc tct ttt gtg ggc cag aca aga gtt ctc atg    1411
Asp Asp Thr Leu Val Leu Ser Phe Val Gly Gln Thr Arg Val Leu Met
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ctg gtc agt gaa tgg aag gag cct cag gcc aag aac atc agt gtg gcc    1603
Leu Val Ser Glu Trp Lys Glu Pro Gln Ala Lys Asn Ile Ser Val Ala
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tcc tgc aat agc agc cag gtg gtg gtg gct gta ggc agg gcc ctc tac    1651
Ser Cys Asn Ser Ser Gln Val Val Val Ala Val Gly Arg Ala Leu Tyr
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tat ctg cag atc cat cct cag gag ctc cgg cag atc agc cac aca gag    1699
Tyr Leu Gln Ile His Pro Gln Glu Leu Arg Gln Ile Ser His Thr Glu
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atg gaa cat gaa gtg gct tgc ttg gac atc acc cca tta gga gac agc    1747
Met Glu His Glu Val Ala Cys Leu Asp Ile Thr Pro Leu Gly Asp Ser
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aat gga ctg tcc cct ctt tgt gcc att ggc ctc tgg acg gac atc tcg    1795
Asn Gly Leu Ser Pro Leu Cys Ala Ile Gly Leu Trp Thr Asp Ile Ser
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Ala Arg Ile Leu Lys Leu Pro Ser Phe Glu Leu Leu His Lys Glu Met
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ctg ggt gga gag atc att cct cgc tcc atc ctg atg acc acc ttt gag    1891
Leu Gly Gly Glu Ile Ile Pro Arg Ser Ile Leu Met Thr Thr Phe Glu
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agt agc cat tac ctc ctt tgt gcc ttg gga gat gga gcg ctt ttc tac    1939
Ser Ser His Tyr Leu Leu Cys Ala Leu Gly Asp Gly Ala Leu Phe Tyr
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ttt ggg ctc aac att gag aca ggt ctg ttg agc gac cgt aag aag gtg    1987
Phe Gly Leu Asn Ile Glu Thr Gly Leu Leu Ser Asp Arg Lys Lys Val
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act ttg ggc acc cag ccc acc gta ttg agg act ttt cgt tct ctt tct    2035
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agc aac cac aaa ttg gtc ttc tca aat gtc aac ctc aag gaa gtg aac    2131
Ser Asn His Lys Leu Val Phe Ser Asn Val Asn Leu Lys Glu Val Asn
            665                 670                 675

tac atg tgt ccc ctc aat tca gat ggc tat cct gac agc ctg gcg ctg    2179
Tyr Met Cys Pro Leu Asn Ser Asp Gly Tyr Pro Asp Ser Leu Ala Leu
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gcc aac aat agc acc ctc acc att ggc acc atc gat gag atc cag aag    2227
Ala Asn Asn Ser Thr Leu Thr Ile Gly Thr Ile Asp Glu Ile Gln Lys
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ctg cac att cgc aca gtt ccc ctc tat gag tct cca agg aag atc tgc    2275
Leu His Ile Arg Thr Val Pro Leu Tyr Glu Ser Pro Arg Lys Ile Cys
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Tyr Gln Glu Val Ser Gln Cys Phe Gly Val Leu Ser Ser Arg Ile Glu
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Val Gln Asp Thr Ser Gly Gly Thr Thr Ala Leu Arg Pro Ser Ala Ser
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Thr Gln Ala Leu Ser Ser Ser Val Ser Ser Ser Lys Leu Phe Ser Ser
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agc act gct cct cat gag acc tcc ttt gga gaa gag gtg gag gtg cac    2467
Ser Thr Ala Pro His Glu Thr Ser Phe Gly Glu Glu Val Glu Val His
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Asn Leu Leu Ile Ile Asp Gln His Thr Phe Glu Val Leu His Ala His
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cct gaa gag gca gag ccc aag cag ggt cgc att gtg gtc ttt cag tat    2659
Pro Glu Glu Ala Glu Pro Lys Gln Gly Arg Ile Val Val Phe Gln Tyr
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tcg gat gga aaa cta cag act gtg gct gaa aag gaa gtg aaa ggg gcc    2707
Ser Asp Gly Lys Leu Gln Thr Val Ala Glu Lys Glu Val Lys Gly Ala
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Val Tyr Ser Met Val Glu Phe Asn Gly Lys Leu Leu Ala Ser Ile Asn
870                 875                 880                 885

agc acg gtg cgg ctc tat gag tgg aca aca gag aag gag ctg cgc act    2803
Ser Thr Val Arg Leu Tyr Glu Trp Thr Thr Glu Lys Glu Leu Arg Thr
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gag tgc aac cac tac aac aac atc atg gcc ctc tac ctg aag acc aag    2851
Glu Cys Asn His Tyr Asn Asn Ile Met Ala Leu Tyr Leu Lys Thr Lys
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Gly Asp Phe Ile Leu Val Gly Asp Leu Met Arg Ser Val Leu Leu Leu
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gcc tac aag ccc atg gaa gga aac ttt gaa gag att gct cga gac ttt    2947
Ala Tyr Lys Pro Met Glu Gly Asn Phe Glu Glu Ile Ala Arg Asp Phe
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aat ccc aac tgg atg agt gct gtg gaa atc ttg gat gat gac aat ttt    2995
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atg cag aat ctg ggt gag act tcc acc ccc aca caa ggc tcg gtg ctc    3187
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